

- 1 300X3.COM BUILDINGS AND PRODUCTS COVERED BY THIS POSTER
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3 ***
4 GOALS (ACTION ITEMS)
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7 ---
8 SCOTT WIDMANN, "I DESIGN BUILDINGS AND PRODUCTS." INCLUDED HERE AS: CASES, MODULAR
BUILDINGS, MOTORS, AND SPECIALTY EQUIPMENT INTEGRATION
9 (KITCHEN, CLEAN-ROOM, HOSPITAL, LAB.)
10
11 EVERYTHING ELSE IS BY OTHERS.
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14 - WHY? "I'M BUILDING A BOAT."
15 - WHY? IT'S THE ONLY WAY I CAN SURVIVE WITH A COMPETITIVE BUSINESS.
16 - WHY? AMERICAN COMMERCIAL MANUFACTURING AND THE U.S. CONSTITUTION - REPAIR THE U.S.
ECONOMY THROUGH INDEPENDENCE.
17 - WHY? A BOAT ENCOMPASSES GENERALLY ALL PRODUCTS AT ADVANCED LEVELS OF DESIGN.
18 - WHY? I BELIEVE THIS IS REQUIRED TO HELP ME, TO HELP CHILDREN, TO HELP THE POOR, TO
HELP THE RICH, AND TO SUPPORT "SCIENCE/INDUSTRY/COUNTRY" - I AM UNDOUBTEDLY WRONG
FOR A VARIETY OF REASONS, MANY OF WHICH I CANNOT FATHOM. YET, I SEE NO REASON TO
LIVE IF I DO OTHERWISE - AS THE ANTITHESIS IS TO EITHER FARM WITHOUT TOOLS OR
SURVIVE IN A GARDEN. NEITHER OF WHICH ACTUALLY EXIST IN RELATION TO URBAN OR EVEN
SUBURBAN SOCIETY TODAY (CERTAINLY NOT FOR AN EXTENDED PERIOD OF TIME AS WITH ADAM &
EVE AND EVEN LESS SO WHEN CONSIDERING THAT WE INTERACT WITHIN THAT SOCIETY IN SOME
KIND.) "IN THE WORLD, NOT OF IT" EXPECTS ME TO FINISH THIS CALLING WHILE SEEDING
THINGS RELATED TO TRUE FAITH - EVEN NOAH HAD TO DO THAT. THE ONLY WAY TRULY OUT - IS
TO NOWHERE. MOVING ON TO THE WATER, THE CABIN, THE DESERT - AFTER WHICH, WE ARE
HARDLY "IN THE WORLD" AND HAVE GENERALLY GIVEN UP ON "LOVE THY NEIGHBOR" (UNLESS IT
IS THROUGH OUR WORK IN SOME WAY AND HOW THAT WORK IS WITHIN CHRIST *IT IS CERTAINLY
POSSIBLE TO LEAVE, LIVE ALONE, DIE, AND STILL IMPACT FUTURE GENERATIONS.) I
REPAIRED, THEN SOLD THAT BOAT - MY MISTAKE AND NOW THERE ARE NO MORE YEARS OR
MATERIALS OR SOMEONE TO SHARE. SO - A DIFFERENT WAY, FOR MORE PEOPLE, IS LISTED
BELOW AND IS DESIGNED TO BE FABRICATED BY MACHINES IN ORDER TO REDUCE COST AND
SUPPORT THEIR TIME WHILE ENCOURAGING INDEPENDENT WORK.
19
20 - MARKETS. ALL SMALL SCALE & MODULAR: HOUSING, STOREFRONT, FABRICATION, FREESTANDING
FURNITURE, 1 PERSON AIR/LAND/SEA VEHICLES, AIR/LAND/SEA ROBOTICS, HANDHELD
APPLIANCES, WEARABLE COMPUTERS, DUAL-FUEL MOTORS. THE PARTS ALL EXIST ALREADY,
EXCEPT THE MOTOR AND THE CASES - I WOULD LIKE TO MAKE THE MOTOR AND INSTALL IT
WITHIN 2.5" DIAMETER PIPES/HOUSINGS FOR BUILDINGS (MEPF - DUCT FAN, WATER PRESSURE,
MACERATOR, HYDRONICS), SMALL VEHICLES, AND SMALL APPLIANCES IN ORDER TO REDUCE THE
COST OF ALL THESE THINGS AND THEIR ASSOCIATED MAINTENANCE WHILE INCREASING THEIR
SPEED AND SUPPORTING MULTIPLE FUEL SOURCES.
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22 ---
23 BUDGET: UNDER \$125K, IDEALLY AS A MARRIED COUPLE INCLUDES
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26 - CONNECTION TO HIGH-END COMPUTING SERVICES FOR TEXT AND PHOTO PROCESSING / FEEDBACK
= 0. LM STUDIO + PIX4D
27 - WEAR A COMPUTER AT LEAST AS POWERFUL AS A LAPTOP, HANDS-FREE USE, OPTIONAL "FACE
MONITOR"(A SMARTPHONE OR CREDIT CARD COMPUTER WITH NEWER MOUSE / HAND-TRACKING +
KEYBOARD) = #. WEARABLE COMPUTER
28 - HIGHER QUALITY CAMPING EQUIPMENT THAN REI OR MILITARY SURPLUS (RE-USABLE 120Z CANS
OF: MOTORS, SOLAR, BOILER, CONSUMABLES, BLANKET, ETC.) = 1. PROTE
29 - STORE FUEL, POWER, AND TRANSFER HEAT/COLD FROM THE ENVIRONMENT ACTIVELY OR
PASSIVELY = 2. POWER SANDWICH

- 30 - AUTOMATE DELIVERY (AIR/LAND/SEA DRONE) BY A GROUP OF VEHICLES TO ANY HOME OR BUSINESS (A DRONE/RC CAR.) = 3. CANRAD
- 31 - AUTOMATE CHORES (WATER PRESSURE, CLEANING, GARDENING, KITCHEN PREP/COOK, A ROBOT ARM ON A CEILING GANTRY) = 3. CANRAD
- 32 - AUTOMATE SALES (A SMALL VENDING MACHINE FOR CANS.) = 4. SCELLAR
- 33 - 3 PARKING SPACES EQUIVALENT LAND, OWNED. STREET FRONTAGE, UTILITIES, BUILDABLE WITH ADDITIONAL OFFSETS. = 5. LAND
- 34 - OWN AND RESIDE IN A HOME WITH STANDARD FEATURES: STRUCTURE, DOORS, INSULATION, POWER, PLUMBING, HVAC, FOUNDATION, BATTERIES, HYDRONICS, + OPTIONAL GANTRY = 6. PIONEER
- 35 - AT HOME "GARAGE" TO STORE MATERIALS & FABRICATE ANYTHING (REGARDLESS OF: HAZARDOUS/FLAMMABLE/LOUD MATERIALS OR TOOLS. 160SF AS A SEPARATE UNIT) = 6. PIONEER
- 36 - RUN A BUSINESS FROM HOME WITH ZERO OVERHEAD, INCLUDING ON-SITE SALES AND INVENTORY MANAGEMENT (LONG COUNTERTOP IN FRONT OF A 30SF SECURE GARAGE) = 6. PIONEER
- 37 - STANDARD FURNITURE: QUEEN BED, TOIL+SHOWER+SINK, KITCHENETTE, DESK (130SF + 30SF STORAGE/STOREFRONT.) + OPTION TO EXPAND AROUND. = 7. OMNIFURNITURE
- 38 - MEDIUM DENSITY LIVE/WORK BUILDING: 4 STORIES, 4 FABRICATION AREAS, 8 LIVE/WORK PIONEER UNITS, 2 SMALL POINT OF SALE SHOPS, ON-SITE CISTERN AND UTILITIES WITH CONNECTION TO GRID. = 8. TITANIC
- 39 - 10R2 SEAT AIR/LAND/SEA VEHICLE, MANUAL AND AUTOMATED CONTROL, A SOLAR VEHICLE WITH NEWER MOTOR AND POWER. = 9. AVENGE
- 40 - MULTIPLE FUEL SOURCES: COMBUSTION, LIQUID/GAS/AIR PRESSURE + ELECTRICITY (ELECTRO-MAGNET), POTENTIAL FOR PLASMA (A TRIFUEL GENERATOR / "MICROTURBINE") = !. RIM DRIVEN FAN
- 41 - ABLE TO PAY/TRADE/WORK FOR SERVICES PROVIDED BY OTHERS (SOFTWARE, MATERIAL, FOOD, TIME, ETC.) = HTML 5 WEBSITE AND DEVICE AS POINT OF SALE.
- 42 - NO GOVERNMENT SERVICES REQUIRED (IN THE WORLD, BUT NOT OF IT.)
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- 44 ---
- 45 3D MODELING IN PROGRESS
- 46 ---
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- 48 - OMNIFURNITURE SHEETMETAL CNC CUTOUTS AND HSS RECTANGULAR SECTION CUT-LIST/CUTS, THIS WILL LIKELY BE READY FOR FABRICATION FIRST WHICH ALIGNS WITH MY PRAYERS / REQUESTS FROM GOD FOR A PERMANENT PLACE TO LIVE+WORK WITHOUT BOTHERING OTHER RESIDENTIAL HOMES AS OCCURED WHILE I WAS IN THE GARAGE OF ONE, AND I BELIEVE IT IS THE MOST VALUABLE TO OTHER PEOPLE (THE ABILITY TO LIVE/WORK/FABRICATE/SELL AT A LOW COST IN TERMS OF TIME AND MONEY.)
- 49 - OMNIFURNITURE SHEETMETAL FORMWORK FOR CONCRETE CASTING (FIRST DRAFT, WILL NEED REVIEW BY A CONCRETE FURNITURE PERSON.)
- 50 - CANRAD CYLINDER AND LOCKING RING: SOME CONCEPTUALIZING NEEDS TO HAPPEN HERE STILL IN REGARDS TO THE CONNECTIONS BETWEEN CYLINDERS AND KEEPING THEM WATERPROOF AS WELL AS WHAT DATA TRANSFER METHOD TO USE, PROBABLY "CANBUS?" WITH 5 PINS/WIRES.
- 51 - CANRAD INNER TRAY FOR COMPUTER MOUNT: TRAY SLIDES INTO A 120Z CAN. THIS SUPPORTS ANY "DECK OF CARDS" SIZED COMPUTER, PROBABLY SMALL SMARTPHONES AS WELL.
- 52 - DUAL FUEL RIM DRIVEN FAN: CONCEPTUALLY DRAWN, PROBABLY A LOT OF VERSIONS OF THIS IN THE FUTURE. DEFINITELY WANT TO KEEP ALL OF THE MOTORS AT 2.5" DIAMETER WHETHER BUILDING OR VEHICLE OR APPLIANCE RELATED. ALTHOUGH THAT BECOMES DIFFICULT WHEN TALKING ABOUT LARGER DRIVING VEHICLES. THE TRICK IS "DISTRIBUTED ELECTRIC ENGINES" FOR ANY VEHICLE WHILE ADDING HYDROGEN COMBUSTION INTO THE RIM SUPPORTS COMBUSTION OR PERHAPS EVEN PLASMA AS WELL AS MAGNETIC BEARINGS. SEVERE HEAT ENCOURAGES THE USE OF FIBERGLASS, GLASS, OR PERHAPS SOME KIND OF CARBON/GRAPHENE/DIAMOND.
- 53 - PROTE LID: COMPUTER CHANGED TO A PUCK AND MOVED TO THE TOP OF THIS NALGENE LID. THAT WAY I CAN USE A PREMADE \$40 OR SO COMPUTER, THESE ARE GETTING PRETTY COMMON TODAY. .5" TAPPED CONNECTIONS MOVED TO SIDES WHICH APPEARS TO BE BETTER BECAUSE RUNNING TUBES OUT OF THE TOP MAKES IT MORE LIKELY TO TIP. HOWEVER, THE EXISTING DESIGN WITH TOP TAPS IS STILL VALUABLE FOR OTHER REASONS. BOTH OPTIONS ARE LIKELY TO BE PRODUCED (ONE WITH SEPARATE MAGNETIC RECTANGULAR COMPUTERS ON THE SIDES, THE OTHER WITH A SINGLE CIRCULAR ONE ON TOP.)

- 54 - THERE IS A LARGE LIST OF EXPECTED CHANGES FOR THE OTHER DESIGNS, HENCE THE CREATIVE COMMONS EFFORT AND POSTING TO ARCHIVE.ORG + ELSEWHERE.
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- 56 ---
- 57 CURRENT FAILINGS
- 58 --
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- 60 - UNABLE TO MAINTAIN INTEREST IN BUSINESS DEVELOPMENT OR DESIGN BY LUTHERAN ORGANIZATIONS OR INDIVIDUALS, ACCEPTABLE BECAUSE THE CHURCH IS FOCUSED ON THE PURSUIT OF GOD AND THE SOUL AS IT SHOULD BE, AND "DOES NOT NEED YOUR INVENTIONS."
- 61 - \$1/MONTH FOR EMAIL, ACCEPTABLE BECAUSE OF A NEED FOR DAILY WORK FROM INDIVIDUALS WHO ENSURE OPEN COMMUNICATION/EMAIL STANDARDS (OTHERWISE MY EMAIL DOMAIN COULD BE BLOCKED RESULTING IN A LOSS OF FUNCTIONALITY) IN ADDITION TO THEIR POSITIVE IMPACT ON TECHNOLOGY AS WELL AS THEIR SUPPORT OF OTHER ORGANIZATIONS THAT "DO GOOD."
- 62 - WATER COSTS (NO WAY AROUND THIS BESIDES DEW HARVESTING WHICH IS PROHIBITIVE UNLESS RELATED TO EXTERIOR SHADES/SCREENS IN A PASSIVE WAY.) PERHAPS COMBINED WITH WELL WATER AND CLOSED LOOP ON-SITE PURIFICATION (PLANT FILTERS REQUIRE ROOM AND TYPICALLY SUN, FABRICATED ONES ADD UP IN COST.)
- 63 - NATURAL GAS COSTS (HYDROGEN CAN REPLACE SOME NATURAL GAS ALTHOUGH THEIR COST IS ALSO PROHIBITIVE, POWER SANDWICH CAN HELP ADDRESS THIS, HOWEVER IT IS AT A TRADEOFF TO USING IT FOR WATER HEATING/COOLING OR BATTERIES.)
- 64 - LAND TAXES ("ALWAYS" TOO HIGH.) ALSO - THE FEATURES OF THIS BUILDING MAKE THE HIGHEST GOVERNMENT COSTS (POLICE & FIRE) GENERALLY UNNECESSARY BECAUSE THE BUILDING IS SECURE AND FIREPROOF (LESS SO THAN A STONE WALL, A FENCE IS AN OPTION: THE TITANIC CONFIGURATION HAS A FENCE AND A STEEL WALL WITH PLANTGROWTH EXPECTED.)
- 65 - LOW RPM RIM DRIVEN MOTORS. NEED 10K RPM WITH OPTION FOR LOW AND HIGH TORQUE, RIM DRIVEN BEARINGS ARE LARGELY UNTESTED, STATOR/ROTOR USE AS MAGNETIC BEARINGS MUST ALSO BE UNDERSTOOD.
- 66 - LAND: NEED ZONING FOR SMALLER LOT SUBDIVISIONS AND SALES, 3 PARKING SPACES OR 60'WX60'LX40'H LAND TO BUILD ON (REFERENDA REQUIRED FOR INDIVIDUAL CITIES.)
- 67 - FINANCING EFFORT ONCE LAND IS LOCKED IN FOR PRODUCT AND BUILDING SALES (NO "VAPORWARE" OR PRODUCTS THAT ARE SOLD BUT NEVER BUILT, FINAL LOT LOCATION AND PROCUREMENT. DETERMINES WHEN SALES CAN MOVE FORWARD AS WELL AS MORE DETAILED FABRICATION. LAND IS NEEDED IN ORDER TO PURSUE THIS IN AN ETHICAL MANNER.
- 68 - FINISHED ESTIMATE FOR ALL PRODUCTS (NEED TO FINALIZE DESIGN ALONG WITH THE ESTIMATE UPDATE - THIS ACTIVITY COULD POSSIBLY GO ON INFINITELY, SCHEDULE MILESTONES NEED TO BE KEPT NOW THAT INFORMATION AND DESIGN SYSTEMS ARE GENERALLY ESTABLISHED - LINUX, PCLOUD, SKETCHUP, PDF, HTML5.)
- 69 - FINISHED DESIGN - MOSTLY "CASES" - 1 CYLINDER TYPE, LIDS, BOXES WITH BREAKOUTS INTO VARIOUS PRODUCTS. MANY CHANGES ARE NECESSARY IN ORDER TO MODULARIZE PRODUCTS AND TO REFINE STRUCTURAL INTEGRITY AS THE FORCES INCREASE TO 55 GALLON TRANSPORT THEN HUMAN-SIZED TRANSPORT (TESTING AND ENCOURAGING INDUSTRY BEFORE PROMOTING HUMAN AIR-TAXIS IS ETHICAL, THE OPPOSITE IS NOT AND IS MORE COMMON.)
- 70 - PARCELED DESIGN FOR DEVELOPMENT OF INDIVIDUAL PIECES BY OTHERS (IDEALLY AS BUSINESSES, TREND IS TOWARDS A CREATIVE COMMONS EFFORT. I HAVE CURRENTLY PUBLISHED ON INTERNET ARCHIVE.ORG AT WWW.ARCHIVE.ORG/DETAILS/300X3 AND HAVE LISTED THE POSTING AS "CREATIVE COMMONS, SHARE AND SHARE ALIKE" IN TERMS OF A LICENSE.)
- 71 - HELPER (I AM DOING THIS FOR MYSELF AS WELL AND AM PURSUING A MARRIAGE WITH SOMEONE WHO WILL ENJOY DOING THIS WORK WITH ME UNTIL DEATH *ITS DAILY DEVELOPMENT, NOT JUST MANAGEMENT OF IT.)
- 72
- 73 ---
- 74 METHOD
- 75 ---
- 76
- 77 - INDIVIDUAL PRODUCTS TO BE BROKEN INTO KITS FOR EACH OF THE USE CASES LISTED BELOW.
- 78 - WRITE LIST OF ACTION ITEMS, MODEL LINK INCLUDED WITH EACH, BREAK INTO RESPONSIBILITIES FOR A LARGER GROUP, MASS EMAIL LARGER GROUP.
- 79 - EXAMPLE WORK: REFERENDA(UM), LAND SEARCH, HTML ECOMMERCE SYSTEM SETUP, INDIVIDUAL

79 CAN DESIGNS (CONTENT), PERFORATED PANEL ATTACHMENTS, OMNIFURNITURE, BUILDING COMPONENTS, FABRICATING PARTS.

80 - CREATIVE COMMONS LICENSING (INDIVIDUALS WORKING ON A PARTICULAR COMPONENT MAINTAIN OWNERSHIP OF THAT COMPONENT AND ITS RELATED DESIGN REVISIONS.) I AM NOT GOING TO PURSUE THESE PEOPLE ACTIVELY MYSELF, PERHAPS SOMEONE ELSE WILL AND WILL WRAP THEM IN. INTENT: "FREE DESIGN" WITH INPUT FROM OTHER PEOPLE AND THE OPTION FOR ANYONE TO CREATE THE ITEM FOR PERSONAL USE WHILE ALSO MAINTAINING THE ABILITY TO REPLICATE IT COMMERCIALY WHILE MAINTAINING DESIGN DEVELOPMENT/MAINTENANCE/IMPROVEMENT AMONGST A GROUP. THE SMALL SIZE OF INDIVIDUAL COMPONENTS IS EXPECTED TO KEEP EACH PART AT A HOBBY-LEVEL IN TERMS OF HOURS REQUIRED BY INDIVIDUALS WHILE FREE FOR PERSONAL USE IS INTENDED TO ENCOURAGE DESIGN DEVELOPMENT MISSED BY THE INITIAL DESIGNER/MANAGER. POTENTIAL ISSUE: THE ORIGINAL CREATIVE COMMONS HOLDER ATTEMPTS TO PRIVATIZE THEIR PRODUCT WHILE SUEING OTHER MEMBERS OF THE GROUP FOR CONTROL OVER A LARGER RANGE OF USE CASES OR FOR USING IMPROVEMENTS TO THE DESIGN. ANOTHER LIKELY PROBLEM: CREATIVE COMMONS HOLDER SHELVES THE DESIGN AND DOES NOT COMMERCIALIZE IT. COMMERCIAL PRODUCTION MUST BE A REQUIREMENT OF HOLDING THE ORIGINAL CREATIVE COMMONS LICENSE (AS IS THE INTENT OF PATENT LAW - PROMOTE COMMERCE AND A STABLE ECONOMY.) ANOTHER LIKELY PROBLEM IS STRONG PUSHBACK FROM: REGULATION, EXISTING LARGER (NON-MODULAR... OR MODULAR) PRODUCTS THAT THEY ALREADY CREATE OR SUDDENLY DECIDE TO CREATE, AND OTHER ORGANIZATIONS THAT ARE SIMPLY AGAINST TRUE FAITH IN CHRIST AND/OR INDEPENDENCE AS THESE ARE FOUNDATIONAL TO THE EFFORT.

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83 ***

84 USE CASES

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87 ---

88 0. OFF-SITE COMPUTERS: "CLOUD COMPUTING" REQUIRED DUE TO COST, COMPUTING POWER, SOFTWARE ACCESS, AND R&D (BY OTHERS)

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91 MARKET:

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93 - COMMUNICATIONS, BACKUP DATA STORAGE, ECOMMERCE MARKETING/SALES, TEMPORARY DATA PROCESSING (NOT SERVING)

94

95 STATUS:

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97 - EMAIL: COMMUNICATION, IRC SUPPORT

98 - CALENDAR: PERSONAL APPOINTMENTS, PUBLIC ROOM RESERVATIONS

99 - DATA BACKUP: PROJECT MANAGEMENT, SALES, MARKETING, 2D/3D DESIGN, MEDIA

100 - HTML (ONLY) HOSTING: WEBSITE, ECOMMERCE SALES, INVENTORY UPDATING, CRYPTOCURRENCY (MARKETING EXERCISES ONLY)

101 - EVENTUALLY LARGER: PHOTO/POINTCLOUDS/TEXT PROCESSING (ALTERNATE USE FOR CRYPTOCURRENCY MINERS)

102 - DATA PROCESSED OFF-SITE TO BE RETURNED ON-SITE (NO OFF-SITE SERVING OF DATA - THE FOCUS IS "HYBRID-CLOUD" NOT "CLOUD DEPENDENT" AS IN, TURNING OFF THE INTERNET DOES NOT INTERRUPT ON-SITE SERVICE, IT JUST SLOWS DOWN CERTAIN FUNCTIONS.)

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104 ---

105 #. WEARABLE COMPUTER

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108 MARKET: COMPUTERS, COMMUNICATION, CONTROLS - POTENTIALLY ANY INDUSTRY, INTENT IS TO KEEP IT SMALL FOR BASIC DESKTOP USE.

109 STATUS: BY OTHERS, EITHER AS SMARTPHONE OR CREDIT CARD COMPUTER, CASE, AND BATTERIES. PROVIDED HERE AS A LIST OF MANUFACTURERS WITH OPTION TO SLOT COMPUTERS INTO CANRAD IF THEY FIT INSIDE <2.4" DIAMETER.

110

111 - SMARTPHONE RUNNING LINUX (FAIRPHONE + MOBIAN + KDEMOBILE)

112 - INPUT: MOUSE, FINGER TRACKING, SPLIT KEYBOARD (LEAP MOTION ON HEADSET ALLOWS FOR SOME NAVIGATION WHILE BLUETOOTH MOUSE REMAINS AS PRIMARY CURSOR CONTROL.) THIGH MOUNT KEYBOARD. EVENTUALLY THIS ALLOWS FOR COMPLETELY HANDSFREE USE WITH ANY GLOVES IN ANY POSITION *SITTING OR STANDING IN ADDITION TO STANDARD VOICE INPUT, ALTHOUGH HAND TRACKING DOES NOT DO THIS EASILY YET.

113 - SMARTPHONE AS HEAD MOUNTED DISPLAY (DRONEMASK - BECAUSE OF SMARTPHONE SPEED, RESOLUTION, AND RADIOS - LOWER RESOLUTION GLASSES OR GOGGLES ARE AN OPTION ALTHOUGH THE COST IS GENERALLY HIGHER WITH CONSIDERATION FOR A SEPARATE COMPUTING DEVICE.)

114 - CANRAD FUNCTIONS AS A WEARABLE COMPUTER / SMARTPHONE REPLACEMENT AS WELL. HOWEVER, IT WON'T BE AS POWERFUL AS A SMARTPHONE. CANRAD'S PURPOSE APPEARS TO BE: ENCASE THE PHONE/CARD IN A CYLINDER FOR IMPACT AND PRESSURE RESISTANCE, AND INTEGRATION WITH CANRAD PUCKS THROUGH 4+1 WIRES, OR PROVIDE ADDITIONAL COMPUTING ON THE ROBOT/APPLIANCE SIDE. ANY PHONE UNDER ~2.4" WIDE AND "REASONABLY THICK" SHOULD SLOT INTO CANRAD. RUNNING LINUX ON THE SMARTPHONE ELIMINATES MANY OF CANRAD'S ADVANTAGES OUTSIDE OF HARDWARE CONTROL WITHOUT USB-C AS A SMARTPHONE IS MORE POWERFUL AND HAS A LARGER MARKET PRESENCE *GENERALLY BETTER AND LESS COSTLY SOFTWARE/HARDWARE (THIS COULD CHANGE, I DON'T KNOW HOW.)

115 - WIRING, STANDARD CABLES BETWEEN 2 THIN LONGSLEEVE SHIRTS, CHAMOISE, OR BLUETOOTH. WIRING PREFERRED FOR CHARGING AND DATA SPEED/CONSISTENCY. A SINGLE DOUBLE SLEEVE ON THE WATCH SIDE AND STRIPS TO FRONT/BACK POCKETS OR BELT DOES THE SAME THING.

116 - CANRAD PROVIDES A VARIETY OF ADVANTAGES TO SMARTPHONES: SOLAR CHARGING, IMPACT, MULTIPLE-FUELS, HYDROGEN FUEL CELL SUPPORT (NOT PREFERRED DUE TO HIGH WEIGHT AND VOLTAGE COMPARED TO COMBUSTION), MOTORS, ETC. IT IS SIMPLY A STANDARD CASE AND CABLING INTERFACE. A USB-C HUB WOULD DO SOMETHING SIMILAR WITH OTHER TECHNOLOGIES AND IS PROBABLY A BETTER ANSWER FOR A LOT OF PEOPLE (WHICH IS WHY I WANT TO PROVIDE USB-C SUPPORT FOR THE PUCKS AS WELL...) THIS IS NOT INTENDED TO BE A WALLED GARDEN, IT *IS* INTENDED TO BE TRULY MODULAR AS IN THE DEVICE CASES ATTACH TO EACHOTHER, AND FUNCTIONS/OPERATION ARE INTEGRATED WHILE ALSO BEING REMOVABLE/SWAPPABLE.

117

118 ---

119 1. PROTE

120 ---

121

122 MARKET: SMALL PRESSURE COOKER, CAMPING EQUIPMENT, SMALL CHEMISTRY/BIOLOGY WORK, AND RELATED AUTOMATION

123 STATUS: REDESIGN REQUIRED (ONE COMPUTER MODULE AT TOP, 3-6 .5" NPT TAPS AROUND PERIMETER, CURRENT MODULE HAS TOO MANY COMPUTERS AROUND SIDES, AND PIPE ROUTING IS TOP-HEAVY.)

124

125 - HYDRATION: TUBE OR STANDARD PLUMBING

126 - HYDRATION: TUBE & STRAW

127 - COOKING: PORTABLE PRESSURE-COOKER

128 - COOKING: ELECTRIC (HEATING ELEMENT), OR FIRE (GASEOUS FUEL), FIRE (WOOD/ COMBUSTIBLE)

129 - COOKING: BOILING & STEAM HEATING ELEMENT (INCLUDING: PERFORATED COVER, SWITCH AND TEMPERATURE CONTROL.) BRAIDED STAINLESS LINE WITH INTEGRATED PRESSURE RELEASE VALVE TO ADDITIONAL VESSELS, .5IN NPT MALE TO MALE ADAPTER AT END OF EACH LINE OR STANDARD MALE CONNECTION.

130 - COOKING: BAILER (HANG OVER FIRE AS STANDARD BAILER WITHOUT VACUUM SEAL ON BOTTLE.)

131 - COOKING: HEATS THE FOLLOWING SHAPES THROUGH STEAM OR HOT WATER BATH: BALLS, CUBES, SMALL FILLETS - ANYTHING THAT EXTRACTS EASILY WHEN LID IS OPENED. NOT: SMALL GRANULES OR BATTER UNLESS INDIVIDUALLY WRAPPED

132 - PRESSURE VESSEL: HEATING ELEMENT, TEMP & PRESSURE RELEASE

133 - PRESSURE VESSEL: BOILER, BOTTLE ROCKET, WATER WHEEL, AIR PINWHEEL

134 - HUNTING/CAMPING: SALT WATER EMBALMING

135 - HUNTING/CAMPING: SAP COLLECTION

136 - HUNTING/CAMPING: SCENTING, SPRAY

- 137 - HUNTING/CAMPING: COOLING, MIST
- 138 - STEAM COOKING: PRESSURE COOKER
- 139 - STEAM SANITIZING: SCALPEL OR INSTRUMENT
- 140 - FUEL: TANK (MOPED, MOTORCYCLE, LAWNMOWER, GENERATOR, REPLACEMENT FOR EXISTING.)
- 141 - FUEL: SIPHONING (GASOLINE)
- 142 - POWER: CAPACITOR
- 143 - POWER: BATTERY (CATHODE, ANODE AND FILL/ ELECTROLYTE)
- 144 - WATER: HYDRATION SYSTEM (TUBE - DRINKING TUBES, .5IN NPT TO FRICTION FITTING ADAPTER, OPTIONAL PRESSURE RELEASE, MEDICAL CLAMP FOR TUBE.
- 145 - WATER: COLLECTION, GRAVITY PLUMBING SHOWER / SINK
- 146 - WATER: SIPHON (FISH TANK, BIRD BATH)
- 147 - WATER: FILTER (SAWYER FILTER OR SIMILAR)
- 148 - WASTE COLLECTION: DISPOSABLE 2 LITER CONTAINER
- 149 - WASTE COLLECTION: URINE (BULB PUMP)
- 150 - WASTE COLLECTION: HAZARDOUS MATERIAL, OIL (CAR, MOTORCYCLE, SMALL ENGINE)
- 151 - FUEL: GAS SIPHON/PRIMER (BULB PUMP)
- 152 - FUEL: TANK (GLASS EYE, BRAIDED STAINLESS TUBE, VACUUM PRESSURE RELEASE)
- 153 - SAMPLE COLLECTION: BLOOD, WATER, AIR
- 154 - STEM KIT: BOTTLE ROCKET (NO QUICK RELEASE)
- 155 - SANITIZING: STEAM (SAME ACCESSORIES AS COOKING.)
- 156 - CAPACITOR OR BATTERY: ADD ELECTROLYTE, POSITIVE ANODE, AND NEGATIVE ANODE. TYPE: LIQUID BASED: [HTTPS://EEPOWER.COM/CAPACITOR-GUIDE/TYPES](https://eepower.com/capacitor-guide/types)
- 157
- 158 ---
- 159 2. POWER SANDWICH
- 160 ---
- 161
- 162 MARKET:STRUCTURAL ENERGY STORAGE AND TRANSFER, BUILDING MATERIAL: FLOOR/CEILING/ WALL/GATE&FENCE DECK, PERFORATED (COMBUSTIBLE GAS, LIQUID, AND BATTERY STORAGE IN WATERPROOF TUBES), VEHICULAR DECK: GOKART/SKATEBOARD/BOAT/DOLLY/RECUMBENT/ WHEELCHAIR, FURNITURE: SHELVES/DESK/COT, MEDICAL: STRETCHER
- 163 STATUS: MADE FROM PLYWOOD, DESIGNED FOR FABRICATION FROM SHEETMETAL AND TAPPED MISC METAL TUBES OR PIPES PLUS INTEGRATED CIRCUITRY (FUEL & CHARGE LEVELS TO START.)
- 164
- 165 - GENERAL: POWER STORAGE AND DISTRIBUTION (LIQUID, GAS, BATTERY IN CAPPED CYLINDERS WHILE STATIONARY OR MOBILE)
- 166 - GENERAL: MODULAR STRUCTURES & FURNITURE (FIXED AND MOBILE)
- 167 - GENERAL: HAND/BACK CARRY
- 168 - GENERAL: VEHICLES
- 169 - POWER AND CONTROLS: INTEGRATED, RUN POWER AND CONTROLS INSIDE THE PANEL TO EACH . 5" HOLE (STAMPED SHEETMETAL "STICKER" PLACED INSIDE THE PANEL.)
- 170 - POWER AND CONTROLS: STICKER, ELECTRIFY AND CONTROL EQUIPMENT (2 MEDIUM VOLTAGE, 2 LOW VOLTAGE EMBEDDED CHANNELS)
- 171 - POWER AND CONTROLS: DC POWER PLUG USB A & C PLUG X2 (INDOOR OR OUTDOOR, D.C. DEVICE CHARGING AND OPERATION)
- 172 - BUILDING MATERIALS: CEILING (INSULATION, AIR CIRCULATION, POWER DISTRIBUTION AND STRUCTURAL BATTERY IN A SINGLE SANDWICH)
- 173 - BUILDING MATERIALS: STRUCTURAL ATTACHMENT, .5IN HOLES ON 2"X2" GRID FOR ATTACHING ANY EQUIPMENT (FLOOR/WALL/CEILING - BOLT ON OR TIE TO, PLUS OPTION TO USE FOR FUEL STORAGE.)
- 174 - BUILDING MATERIALS: EXTERIOR AND INTERIOR SHEATHING + ELECTRICITY DISTRIBUTION.
- 175 - BUILDING MATERIALS: SANDWICH WITH INSULATION (EFIS)
- 176 - RACK: 1" DIAMETER STRUTS, SPAN ACROSS PANEL AND ATTACH TO CANRAD CYLINDERS AS WELL AS A VEHICLE ROOF RACK, TRAILER, OR ANYTHING ELSE WITH A 1" DIAMETER ATTACHMENT METHOD.
- 177 - RACK: 1" DIAMETER STRUTS, TO RAISE OR LOWER HULLS (FOR SWATH HULL ORIENTATION, GROUND CLEARANCE, TRIM AT *AIR/LAND/SEA, STABILIZATION *HULL/FUSELAGE ABOVE OR BELOW MOTORS, AND LOWERING THE HULLS FROM A HIGH VEHICLE IN ORDER TO PICKUP BY HAND AT EITHER SIDE AND REMOVE FROM THE BACK.)

- 178 - RACK: STORAGE, ATTACH ANYTHING TO PERFORATED PANEL AND STRUTS (REMOVE BOTH WITH A QUICK RELEASE AT THE VEHICLE)
- 179 - RACK: STORAGE, NETTING BETWEEN PANEL/FUSELAGE AND CANRAD CYLINDERS ALLOWS FOR LOOSE CARRY OF SOME ITEMS (CLAMSHELL NETTING)
- 180 - RACK: HYDRAULICS, CONTROLLED RAISING/LOWERING OF STRUTS (BETWEEN POWERSANDWICH/FUSELAGE AND CANRAD CYLINDERS)
- 181 - SIGN: NEON BACKERBOARD, D.C. ELECTRIFIED SIGN BACK, AND WAFER FOR ATTACHMENT (NO NEED FOR DARKENED SECTIONS, OR RUN THROUGH TO BACK)
- 182 - SIGN: BACKERBOARD, ANY ELECTRIFIED SIGN
- 183 - SIGN: AREA LIGHTING, ENLARGED "LIGHT-BRIGHT" PANEL FOR THE EXTERIOR SKIN OF ANY BUILDING
- 184 - SIGN: STORE DISPLAY, SIGN ALONGSIDE ITEMS FOR SALE (TIE TO OR HANG ON A PEG ALONG WITH LIGHTING FOR INDIVIDUAL ITEMS)
- 185 - SIGN: STORE DISPLAY, MOVEMENT, MOTORIZED ITEMS ON BOARD ALONGSIDE LIGHT FOR DISPLAY OF FEATURES OR AS DYNAMIC SIGNAGE, E.G. A ROTATING GEAR OR PUPPET.
- 186 - BACKPACK FRAME: GENERAL BACKPACK USE (STEP, HILL, OR ROCKY TERRAIN, CARRY & TIE ON)
- 187 - BACKPACK FRAME: HUNTING, KILL CARRY
- 188 - BACKPACK FRAME: BUNDLES, FIREWOOD, BLANKETS
- 189 - BACKPACK FRAME: PEGBOARD, SMALL ITEM SALES, CLOSET, OR WALL STORAGE
- 190 - BACKPACK FRAME: CAPACITY INCREASE, HEAVY EQUIPMENT CARRY (FIRE WATER PUMP, CAR BATTERIES, SOLAR CHARGER, SOLAR PANELS, JACKHAMMER *UNUSUALLY SIZED EQUIPMENT)
- 191 - BACKPACK FRAME: CAPACITY INCREASE, BINS, ROCK & SAND (CARRY BUILDING AND LANDSCAPING FOUNDATION, FILL, OR SOIL "LOOSE" MATERIALS)
- 192 - BACKPACK FRAME: CAPACITY INCREASE, TIE-TO FOR GATHERING (FRUITS, VEGETABLES, BERRIES)
- 193 - BACKPACK FRAME: CAPACITY INCREASE, 5 GALLON JUGS, BUCKETS, GAS CANS/JERRIES (WATER, GAS, LIQUID CARRY)
- 194 - BACKPACK FRAME: CAPACITY INCREASE, ATTACH SMALLER SATCHELS TO CARRY SMALLER ITEMS
- 195 - STRETCHER: INJURY STABILIZATION/TIE-DOWNS, CARRY (INTEGRATED WHEELS, PROPULSION, HEART MONITORING, MEDICAL EQUIPMENT, ETC.)
- 196 - STRETCHER: FLAT AREA FOR SLEEPING PAD AND SLEEPING BAG OR BLANKET (NO SHARPS FROM GROUND)
- 197 - RAMP: TRUCK, HUMAN
- 198 - BARRIER: TEMPORARY
- 199 - BED: COT (SLEEPING, QUICK HANG UP)
- 200 - BED: MURPHY BED WITH FABRIC OR SHEET AS THE ONLY VISIBLE ITEM WHEN UPRIGHT (CABIN, SHOP, OR HIDDEN SLEEPING AREA AT A BUSINESS)
- 201 - BOXSPRING: PANEL AS HEADBOARD PLUS SIDE RAILS, STRETCH A NET OR SHEET AND MATTRESS GOES ON TOP
- 202 - FORT: KIDS FORT (90 AND 45 SHEETMETAL ANGLES IN CORNERS)
- 203 - BENCH: 45 DEGREES, SIMILAR TO LC4 CHAIR (SLEEPING, WAITING, READING, RELAXING, TECHNOLOGY USE, BUS STOP, PARK, BUSINESS)
- 204 - DESK: WORKSTATION (STANDING OR STOOL ONLY, NO NEED FOR AN OFFICE CHAIR)
- 205 - DESK: HEIGHT ADJUSTABLE TO FIXED POSITION (LIMIT ADJUSTMENT TO MONITORS & KEEP A SPLIT KEYBOARD ON THE THIGHS WITH VELCRO WHILE STANDING, OR SET A SECOND SHELF TO TYPE ON)
- 206 - SHELVES: ADJUSTABLE STORAGE (.5IN THREADED RODS, OR THREAD YOUR OWN POLES TO OFFSET SHELVES TO ANY HEIGHT)
- 207 - SHELVES: PRODUCT DISPLAY, PARTS ORGANIZATION, DELIVERIES IN/OUT, CORD + CURTAINS TO COVER
- 208 - SHELVES: DOORS (PIPE OVER VERTICAL THREADED ROD BETWEEN PANELS FOR DOOR HINGES)
- 209 - SHELVES: MEDIA DISPLAY, COFFEE TABLE, GAME TABLE
- 210 - IN VEHICLE STORAGE: SHELVES
- 211 - IN VEHICLE STORAGE: RAISED PLATFORM
- 212 - IN VEHICLE STORAGE: EQUIPMENT TIE-DOWNS
- 213 - WHEELS: DISPLAY, MOTORIZED: BOARD AND DOLLY (SALES PROMOTION, PRESENTATION, PROMOTIONAL MATERIAL)
- 214 - WHEELS: CART FOR MEDIUM WEIGHT CARRY

- 215 - WHEELS: DOLLY FOR MEDIUM WEIGHT CARRY (STANDARD DOLLY AS TWO OR FOUR WHEELS)
- 216 - VEHICLE: RECUMBENT BICYCLE - LONGER DISTANCE TRANSPORT (NO BATTERY)
- 217 - VEHICLE: HITCHED TRANSPORT FOR A (TRAILER/WAGON, SLEEPING AREA, DISPLAY BOARD)
- 218 - VEHICLE: FUSELAGE (ATTACHES TO TOP AND BOTTOM OF POWER SANDWICH FOR FLUID DYNAMICS, PRESSURIZATION, OR SAFETY)
- 219 - VEHICLE: ELECTRIC GOKART (BOLT ON A MOTOR, OR USE AN IN-WHEEL MOTOR)
- 220 - VEHICLE: COMBUSTION GOKART (BOLT ON A MOTOR, OR USE AN IN-WHEEL MOTOR)
- 221 - VEHICLE: FUSELAGE 1 PERSON (AIR/LAND/SEA)
- 222 - VEHICLE: FUSELAGE 2 PERSON (AIR/LAND/SEA)
- 223 - VEHICLE: MOTORIZED COT (TRAVELING SALES)
- 224 - VEHICLE: WAGON (2 LAYERS OR SECURE WITH LID)
- 225 - INVENTIONS & WAFER PROJECTS: CHEMISTRY, ELECTRONICS
- 226 - INVENTIONS & WAFER PROJECTS: RUBE GOLDBERG
- 227
- 228 ---
- 229 3.CANRAD
- 230 ---
- 231
- 232 MARKET: AUTOMATION OF HAND POWER TOOLS, SMALL APPLIANCES, TRANSPORTATION, ROBOTICIZATION (ALL INDUSTRIES)
- 233 EACH SECTION IS A DIFFERENT PUCK FOR HUMAN USE OR A ROBOT - LIKE A SPECIALIZED REPLACEABLE HAND *DR. NO, OR A FLYING 6-PACK. TRICK: NO HANDLE... ACTUALLY "THERE'S A PUCK FOR THAT!"
- 234 STATUS: CONSTRUCTING CASE AFTER IDENTIFYING THE CHIPSETS AND SOFTWARE TO BE RUN ON IT.
- 235
- 236 - SLEEVE: OPEN TOP AND BOTTOM, ESSENTIALLY PIPE SECTIONS FROM SHEETMETAL WITH REMOVABLE CAPS AND 2 HIGH VOLTAGE + 2 LOW VOLTAGE CONNECTIONS + GROUND.
- 237 THIS IS THE PRIMARY "CANRAD" PRODUCT (INNER AND OUTER THREADS FOR: IMPACT, PRESSURE, WATERPROOFING, WIRING, AND QUICK RELEASE.)
- 238 - TRAY: UNIVERSAL TRAY FOR ATTACHMENT OF ANY COMPUTER (~1/8" HOLES ON A 1/2" GRID *MINIATURE POWER SANDWICH)
- 239
- 240 - CAPS: SEALED/WATERPROOF (IDEALLY NOT THREADED FOR CLEANLINESS AND SAND)
- 241 - LOCKING RING: WATERPROOFING & SECONDARY STRUCTURE
- 242 - POWER & DATA: USB A, C, MICRO
- 243 - POWER: BATTERY PACK (PRIMARILY AA, AND 18650 SIZES WITH OPTION FOR ANY)
- 244 - POWER: CAR JUMPER
- 245 - POWER: BATTERY CHARGER
- 246 - POWER: BACKUP BATTERY
- 247 - POWER: CAPACITOR
- 248 - POWER: HAND CRANK
- 249 - POWER: FOOT PEDALS
- 250 - POWER: AC/DC PLUGS AND INPUT/OUTPUT
- 251 - POWER: SOLAR GENERATOR UP TO 240 WATT, AND 110 VOLT.
- 252 - POWER: AC CHARGING (IN FROM PLUG)
- 253 - POWER: DC CHARGING (IN FROM SOLAR)
- 254 - POWER: AC OUTPUT (STANDARD SOCKET)
- 255 - POWER: DC OUTPUT (DONGLE OF MULTIPLE DC CONNECTORS, STANDARD +/- BULLET PLUGS)
- 256 - POWER: SOLAR PANEL POWER (ROLLED SOLAR PANELS, PROTECTS FROM DAMAGE)
- 257 - POWER: VOLTAGE CHECK (BANANA PLUGS, USB-A, USB-C, ABLE TO CHECK ALL INPUTS AND OUTPUTS ON BOARD)
- 258 - POWER: HIGH AND LOW VOLTAGE DISTRIBUTION (SPLIT HIGH AND LOWER POWER)
- 259 - COMPUTER: PERSONAL COMPUTER, LAPTOP REPLACEMENT, TRAY
- 260 - COMPUTER: PDF AUDIO READING "ESV BIBLE", "ENCYCLOPEDIA BRITANNICA", "FATHER SON LIBRARY", 4TB COLLECTION FROM ARCHIVE.ORG (PRELOADED, OPTION TO ERASE)
- 261 - AUDIO: MUSIC, BOOK
- 262 - AUDIO: INSTRUMENT AMPLIFICATION
- 263 - RADIO: AM, FM, NOAA WEATHER

- 264 - RADIO: UHF, VHF
- 265 - RADIO: WIFI, LORAN
- 266 - RADIO: CELLULAR
- 267 - RADIO: MESH NETWORK OPTION, EXTERNAL MICROWAVE ANTENNAE OPTION
- 268 - RADIO: BLUETOOTH
- 269 - LIGHT: LCD SCREEN WTH PROGRAMMABLE LIGHTS AROUND
- 270 - LIGHT: CLOCK (TIME, 4 ALARMS, TIMER, DATE, TIDE)
- 271 - LIGHT: AREA, READING, COOKING, TABLE, WORK
- 272 - LIGHT: BOAT, ANCHOR (WHITE AREA LIGHT) + TRICOLOR (GREEN+RED)
- 273 - LIGHT: DANCE, RANDOM SETTING
- 274 - LIGHT: BICYCLE/VEHICLE HEADLIGHT, TAIL-LIGHT, TURN SIGNALS
- 275 - LIGHT: EMERGENCY SOS LIGHT
- 276 - MOTOR: ELECTRONIC SPEED CONTROL (MANAGE MOTOR SPEED)
- 277 - MOTOR: END CAP, OPTION TO SIDE MOUNT
- 278 - MIXING: BLENDER INSERTS MATCHING A HAND MIXER (ICECREAM, SOUPS, MASHED POTATOES, BAKING BATTER)
- 279 - MIXING: INDUSTRIAL MIXING (CONCRETE VIBRATOR, SPATULA, METAL/PLASTIC GRINDER)
- 280 - WASTE: GARBAGE DISPOSAL
- 281 - POWER: ALTERNATOR BUILT INTO RIM DRIVEN MOTOR (KINETIC POWER CREATION)
- 282 - POWER: CRANK BOTTOM BRACKET SLOTS INTO RIM DRIVEN FAN WHERE PROP/PROPELLER USUALLY IS.
- 283 - POWER: CRANK, SINGLE CRANK (BICYCLE CRANK PLUS PEG)
- 284 - POWER: CRANK, DOUBLE CRANK AS FOOT PEDALS (STANDARD BICYCLE PEDALS)
- 285 - POWER: CRANK, FLOOR MOUNT
- 286 - CONSTRUCTION: DUMP BOTTOM DUMP CAN, SIDE OPENS TO DROP LIQUIDS/SOLIDS FROM VACUUM OR TO PICKUP WASTE
- 287 - CONSTRUCTION: DRILL
- 288 - CONSTRUCTION: WELD
- 289 - CONSTRUCTION: PLASMA CUTTING
- 290 - CONSTRUCTION: HANDLE ATTACHMENT (PERPENDICULAR OR PARALLEL TO TOOLS - STANDARD MALE HANDLE THREADS ATTACH TO A FEMALE THREADED PUCK)
- 291 - CONSTRUCTION: ANY EXISTING POWERTOOL IN A 12OZ CAN FORMFACTOR
- 292 - CUTTING: GRINDER
- 293 - CUTTING: CLIPPERS
- 294 - CUTTING: SERRATED WHEEL (TREE & BUSH TRIMMING: LAND ON BRANCH, CUT BRANCH FROM ABOVE)
- 295 - CUTTING: DIGGING HEAD (ROTATING/CUTTING)
- 296 - CUTTING: DIGGING HEAD (PLASMA)
- 297 - CUTTING: DROP BASKET
- 298 - LIQUIDS: WATER PUMP
- 299 - LIQUIDS: DRINKING WATER
- 300 - LIQUIDS: IRRIGATION WATER
- 301 - LIQUIDS: INSECTICIDE SPRAY
- 302 - LIQUIDS: FERTILIZER SPRAY
- 303 - LIQUIDS: SAMPLE WATER
- 304 - LIQUIDS: SPRAYER (CLEAN SOLAR PANELS, WINDOWS, SPOT POWERWASHING)
- 305 - VACUUM: PICK UP TRASH
- 306 - VACUUM: SAMPLE DIRT
- 307 - VACUUM: VACUUM FLOORS
- 308 - VACUUM: MOP FLOORS
- 309 - AIR: AIR PUMP
- 310 - AIR: AIR FILTER (MEDICAL AIR...)
- 311 - MACERATOR: LIGHT DUTY PROSPECTING PUMP
- 312 - MACERATOR: LIGHT DUTY HYDROPONICS PUMP
- 313 - MACERATOR: LIGHT DUTY UTILITY PUMP
- 314 - MACERATOR: LIGHT DUTY BILGE PUMP
- 315 - HOT/COLD: PELTIER COOLING & HEATING, ONE SIDE HOT ONE SIDE COLD THEN ATTACHED TO AN EMPTY CYLINDER
- 316 (FOR: *AIR, *WATER - DRINKING WATER, CLEANING WATER, FOOD, DRINK, MEDICAL SAMPLES,

316 FIELD SAMPLES, CHEMISTRY/BIOLOGY EXPERIMENTS)
317 - HOT/COLD: VACUUM SEALED SLEEVE
318 - MEASURE: RANGE FINDER - SINGLE DIRECTION LASER/LIDAR OR "SOLID STATE", AVOID
ROTATING LIDAR. (TOPOGRAPHIC MAPS, VOLUME CALCULATIONS, DISTANCE, MEASUREMENTS, LESS
"SLAM" AUTOMATED MOVEMENT, FOCUS IS ON KNOWN MISSIONS IN KNOWN LOCATIONS FOR
INDUSTRY (FARM/GARDEN) OR VERY SLOW MOVEMENT (DIGGING/CONSTRUCTION.)
319 - MEASURE: PHOTO SENSOR AND LENS ATTACHMENT (ORTHOPHOTOS, VOLUME CALCULATIONS,
SECURITY/ID, 3D MESH)
320 - TRANSPORTATION: AUTOPILOT AND MOTOR CONTROLS (PERSONAL, COMMERCIAL, AND INDUSTRIAL
- AUTOMATED GARBAGE BIN HAUL *DRIVES/FLYS TO LANDFILL, OR SMALL TRAILER EQUIVALENT)
321 - MOTION: ELECTRONIC SPEED CONTROLS & DUCTED FAN ATTACHMENTS (2IN1 OR 4IN1 ESC IN
PUCKS SO 2-4 MOTORS CAN BE ATTACHED TO EACH 1" PUCK)
322 - MOTION: POWER TO FLIGHT MOTORS
323 - MOTION: POWER TO APPLIANCE MOTORS
324 - MOTION: DIGITAL MOTOR SPEED ADJUSTMENT
325 - MOTION: RIM DRIVEN FAN MOTOR HOUSING
326 - MOTION: RIM DRIVEN FAN INSERT - PROPELLER (MANY BLADES: AIR *COPTER, *PLANE)
327 - MOTION: RIM DRIVEN FAN INSERT - PROPELLER (FEW BLADES: WATER *SUBMARINE *BOAT) -
LIKELY OPTION FOR COMBINED AIR/LAND/SEA - 3 BLADES
328 - MOTION: RIM DRIVEN FAN INSERT - TIRE WRAP (CAR)
329 - MOTION: RIM DRIVEN FAN INSERT - COG FOR TREADS (TRACTOR: ROUGH TERRAIN TRACTION,
MANUAL ATTACHMENT OF TREAD)
330 - MOTION: WATER, OR AIR/COMBUSTION WHEEL (ROTATION THROUGH AIR/GAS PRESSURE)
331 - MOTION: POGO LANDING GEAR (THRUST CAN ROTATE CYLINDER 180 DEGREES, POGO KEEPS
BLADES FACING UP AND AWAY FROM GROUND.)
332 - MOTION(X): SECONDARY AXIS MOVEMENT AT ATTACHMENT TO FUSELAGE (SMALLER RIM DRIVEN
FAN WITHOUT A PROPELLER INSIDE, NOT A SERVO)
333 - MOTION(Y): TRANSMISSION FOR TANK TREADS COG AUTOMATED ON/OFF LOCK (AUTOMATED 4X4
WHEEL HUB LOCKOUT TO ALLOW FOR INDEPENDENT PROPELLERS OR CONNECTED TREADS)
334 - MOTION(Z): MOTOR ATTACHMENT (2 MOTORS, CONTRA ROTATION - HIGHER WEIGHT CAPACITY
AND SPEED)
335 - MOTION: WINGS (GLIDING)
336 - MOTION: WINGS (HIGH SPEED FLIGHT)
337 - MOTION: WINGS (FOLDING)
338 - BALLAST TANKS: ETFE ARM FLOATIE BAGS (WATER FLOTATION, IMPACT RESISTANCE,
TEMPORARY DOCK, EMERGENCY CUSHION)
339
340 ---
341 4.SCELLAR:
342 ---
343
344 MARKET: AUTOMATED SALES, STORAGE & MAINTENANCE (VENDING, GARAGE, WAREHOUSE, PANTRY,
COOK-CHILL KITCHEN, KITCHEN PREP, AT VENDING SIZE OR BUILDING SIZE),
345 STATUS: INITIAL DESIGN, CLAW TRANSITIONING TO HEIGHT-ADJUSTABLE TROTH/CONVEYOR WITH
360 MOTOR ATTACHMENTS AT EITHER END AND HOLDER METHOD (NOT VACUUM, TOO LOUD) IN
ORDER TO CONNECT PUCKS AUTOMATICALLY.
346
347
348 - VENDING: WIRE RACK (12OZ CANS, RESEALABLE LIDS. LIQUIDS, DRY FOOD, MEATS,
CLOTHING, EQUIPMENT.)
349 - VENDING: STORAGE, WIRE RACK FOR CAN STORAGE
350 - VENDING: TROTH (PICKS UP AND MOVES CANS FROM DIFFERENT LEVELS OF THE WIRED RACK SO
THEY DON'T DROP)
351 - VENDING: TWIST (CONVEYOR AND TWIST LOCKS AT EITHER END, ROTATES AND ATTACHES
PUCKS)
352 - VENDING: ROBOTIC ARM (OPTION FOR ADDITIONAL ORGANIZATION, PRODUCT PREPARATION, AND
AUTOMATED MAINTENANCE)
353 - VENDING: SHELL (STORAGE AND SALE OF SMALL PRODUCTS LISTED HERE AND WITHIN TYPICAL
BAG OR CAR, SIZED TO FIT IN AN ICE CHEST)

- 354 - VENDING: HANGAR DOOR (DRONE HANGAR DOOR AND SECONDARY EGRESS DOOR FROM TOP OF MACHINE, MACHINE ONLY NO HUMAN.)
- 355 - ENVIRONMENT CONTROL: COOLING COMPRESSOR AND HEATER (TEMPERATURE CONTROLLED, SCELLAR INSERTS INTO EXISTING VENDING MACHINES AND PAYMENT SYSTEMS.)
- 356 - COOKING: KITCHEN COOK/CHILL SYSTEM (STEAM AND CHILL IN CAN)
- 357
- 358 ---
- 359 5. LAND
- 360 ---
- 361
- 362 MARKET: SEMI-URBAN AND RURAL (AVOIDING URBAN AREAS DUE TO OVER-REGULATION & HIGH COST WHICH ARE PREVENTING URBAN INFILL AND HIGH-RISE CONSTRUCTION, ESPECIALLY IN THIS PRICE RANGE.)
- 363 STATUS: CRAIGSLIST SINGLE PAD AD POSTED, SOME REALTORS CONTACTED, NO RESPONSE DESPITE MEETING IN PERSON. BEGINNING TO DRAFT A REFERENDA RELATED TO 3 PARKING SPACE SUBDIVISIONS AND TO PLAN FOR WORK TO BE BUILT IN A LARGER LOT WITH A FENCE THAT IS TITANIC SIZED. THEN MOVE UNITS INTO INDIVIDUAL CITIES BASED ON INDIVIDUAL PROPOSALS TO CITY PLANNING AS IS COMMON FOR ALL "PREFABRICATED" OR "MODULAR" OR "RV" CONSTRUCTION.
- 364
- 365 - 1 PARKING SPACE: A SINGLE 160SF PARKING SPOT IS ENOUGH FOR A LIVE/WORK BUILDING INCLUDING STORAGE AND STOREFRONT FOR 1 PIONEER UNIT.
- 366 - 3 PARKING SPACES: BUILDING FOOTPRINT OF 160SF + 160SF + 160SF = 480SF (MINIMUM) FOR 1 PIONEER UNIT, 1 UTILITY CONTAINER AT 20', AND A ROOF BETWEEN.
- 367 - 3 PARKING SPACES: BUILDING FOOTPRINT OF 26'X30' = 780SF (WITH 3 FOOT SETBACK AROUND ALL THREE) FOR 1 PIONEER UNIT, 1 UTILITY CONTAINER AT 20', ROOF BETWEEN.
- 368 - 60'X60'X40': BUILDING FOOTPRINT OF 24'X40' = 960SF BUILDING AT 4 STORIES ~40' HEIGHT (MINIMUM) FOR 8 PIONEER UNITS, 4 FABRICATION UNITS, AND 2 SHOPS.
- 369 - 60'X60'X40': BUILDING FOOTPRINT OF 30'X46' = 1380SF (WITH 3 FOOT SETBACK AROUND ALL THREE) FOR 8 PIONEER UNITS, 4 FABRICATION UNITS, AND 2 SHOPS.
- 370
- 371 ---
- 372 6. PIONEER
- 373 ---
- 374
- 375 MARKET: LIVE/WORK BUILDING WITH ON-SITE UTILITIES AND OPTION TO CONNECT TO GRID AS WELL AS SUPPORT FOR FABRICATION, AUTOMATION, AND LOW OR HIGH DENSITY. LIVING AND FABRICATION WITH HOTWORK INCLUDING: BED, SHOWER, TOILET, DESK, KITCHEN, STORAGE, FOUNDRY, WELDING, GLASS, HEAVY MACHINERY, UNISTRUT GANTRY
- 376 STATUS: DESIGN IS GENERALLY BUILDABLE, LAYOUT AND CUT-LIST OF MATERIALS IS EXPECTED AFTER FINALIZING OMNIFURNITURE SINCE OMNIFURNITURE CAN BE SET ON AN EMPTY CONCRETE PAD OR WITHIN A BOX TRUCK AS WELL AS WITHIN THE PIONEER BUILDING.
- 377
- 378 - BUILDING TYPE: TECHNICAL WORK / TECHNOLOGY WORK - CLEAN ROOM, CONTROLLED AIR, AIRLOCK.
- 379 - BUILDING TYPE: LAB WORK - CLEAN ROOM, CONTROLLED AIR, AIRLOCK, FUMEHOOD.
- 380 - BUILDING TYPE: SERVER FARM - SUSTAINABLE ENERGY, NON-NUCLEAR.
- 381 - BUILDING TYPE: HOSPITAL - AT HOME/ON-SITE RECOVERY, GANTRY PATIENT MOVING, OPERATION, PHYSICAL TRAINING.
- 382 - BUILDING TYPE: RECYCLING - GRINDING, MELTING.
- 383 - BUILDING TYPE: FABRICATION - TRADITIONAL TOOLS, CNC TOOLS.
- 384 - BUILDING TYPE: KITCHEN - SMALL SCALE PRESSURE COOKERS, OR LARGER SCALE COOK/CHILL SYSTEMS.
- 385 - BUILDING TYPE: GARAGE - VEHICLE STORAGE AND MAINTENANCE.
- 386 - BUILDING TYPE: OUTPOST - OIL, GAS, MINING, FORESTRY.
- 387 - BUILDING TYPE: CABIN - RECREATION, HUNTING, SKIING, BOATHOUSE.
- 388 - ROOF: WIDEFLANGE BEAM (STRUCTURE, ABOVE CEILING SUPPORT, SOLAR PANEL FASTENING POINT TO PREVENT UPLIFT, POSITIVE FLASHING, GUTTER. STEEL STRUCTURE PROVIDES BUILDING GROUNDING.)

- 389 - ROOF: SOLAR PANELS (POWER PRODUCTION, SHADE, WEATHERPROOFING)
- 390 - ROOF: PLENUM AREA (AIRFLOW, FANS (AIR EXCHANGE FROM GARAGE TO THE OUTSIDE - INTEGRATED AIR, ELECTRICITY, LIGHT, WATERPROOFING)
- 391 - ROOF: CEILING (POWER SANDWICH AS PERFORATED CEILING GRID TO INCLUDE: BATTERIES, LIGHTS, FANS, FIRE ANNUNCIATOR, SPRINKLERS, ETC.)
- 392 - SOLAR CLEANING: SOLAR ROOF SPRAYER AND SQUEEGEE PULL ROPE CLEANER
- 393 - SOLAR CLEANING: CLEANING BY ROPE SQUEEGEE & HOSE SPRAYER FROM GROUND (SIMILAR TO FARMING IRRIGATION)
- 394 - UTILITY: CONTAINER PARTITIONS (FIRE RATED, AND STRUCTURALLY SUPPORTIVE
- 395 - UTILITY: ID/COIN OPERATED LOCKSETS (SHOWER, TOILET, LAUNDRY, FOOD HEATING, BICYCLE, ROWER, STORAGE, COMPUTING, AND HOT WATER FACILITIES)
- 396 - SANITATION: SHOWER CUBE (SAME AS OMNIFURNITURE UNIT)
- 397 - SANITATION: TOILET CUBE (SAME AS OMNIFURNITURE UNIT)
- 398 - SANITATION: SINK CUBE (SAME AS OMNIFURNITURE UNIT)
- 399 - COMMERCIAL WASHER / DRYER: (CLEAN CLOTHES & FABRICS)
- 400 - COMMERCIAL WASHER / DRYER: UPGRADE KIT (RE-USE OLDER WASHER/DRYERS, MAKE KIT COMMERCIALY AVAILABLE FOR COMMERCIAL WASHER/DRYERS, STANDARD GAS HEATER FOR AIR & WATER (COMBINE INTO A SINGLE UNIT WITH FRONT LOAD AND WATERFLOW OR AIRFLOW BY CYCLE.)
- 401 - PUBLIC WATER: COLD WATER FILL
- 402 - PUBLIC WATER: HOT WATER FILL
- 403 - PUBLIC WATER: LAUNDRY PREWASH (DROP IN)
- 404 - PUBLIC WATER: DISH CLEAN (DROP IN)
- 405 - PUBLIC WATER: SHOP SINK (PRIMARY TUB)
- 406 - PUBLIC WATER: GARBAGE DISPOSAL (ANTI-CLOG)
- 407 - INSULATED DC WALL: SOUND AND THERMAL INSULATION AT EXTERIOR OF BUILDING
- 408 - INSULATED DC WALL: MAINTAINS BARE STEEL INSIDE FOR DURABILITY, MAGNETS, AND OPTIONAL TAPESTRIES OR OTHER WALL FINISHES
- 409 - INSULATED DC WALL: OPTIONAL DC CHARGE FOR SIGNAGE OR SECURITY
- 410 - GATE: GATE ON ROLLERS (HUNG FROM STRUCTURAL STEEL ABOVE, HARD RUBBER WHEELS BELOW, NO FLOOR TRACK)
- 411 - GATE: AUTOMATED GATE OPERATES WITH GEAR SET INTO CNC CUTS AT BOTTOM OF ROOF BEAM.
- 412 - GATE: SECURES CENTRAL COURTYARD WHILE MAINTAINING AIRFLOW WITH GATES CLOSED OR OPEN
- 413 - MICROTURBINE: NATURAL GAS MICROTURBINE
- 414 - MICROTURBINE: POWER PRODUCTION FROM NATURAL GAS FOR USE OR SALE BACK TO THE GRID (POTENTIAL TO RUN WITH HYDROGEN FROM SOLAR PANELS DEPENDING ON TYPE OF SOLAR PANELS USED *SOME PRODUCE HYDROGEN DIRECTLY.)
- 415 - WASTE PROCESSING: PIPING AND VALVES FOR ON-SITE TREATMENT OR TRANSFER TO PUBLIC UTILITIES
- 416 - WASTE PROCESSING: OLD TIRE HOUSING AND SHEETMETAL CAPS AT OPEN SIDES WITH DOOR ACCESS. ROTATION TO MIX INTO COMPOST OR SEPARATE SOLIDS AND LIQUIDS DEPENDING ON SOURCE.
- 417
- 418 ---
- 419 7. OMNIFURNITURE
- 420 ---
- 421
- 422 MARKET: ANY FURNITURE NEEDS IN ANY LOCATION - OUTSIDE, WAREHOUSE, HOUSE, COMMERCIAL BUILDING, STRIP MALL, BOX TRUCK, SHIPPING CONTAINER, BARE MOUNTAIN-TOP, ETC.
- 423 STATUS: PRIMARY FOCUS FOR LAYOUT AND FABRICATION, LARGEST CHALLENGE IS FORMWORK FOR THE CONCRETE COMPONENTS WHICH IS VERY LARGE FOR THE MURPHY BED/CLOSET/DESK UNIT WHICH EVERYTHING COULD ALSO ATTACH TO TO BUILD-OUT ALL THE FURNITURE AS A SINGLE FREESTANDING ISLAND.
- 424
- 425 - FURNITURE: PARTITION (SHEETMETAL WALL AND ATTACHMENTS)
- 426 - FURNITURE: MURPHY BED (QUEEN SIZE MATTRESS, DESK, CLOSET, SHELF)
- 427 - FURNITURE: AIR (VENTILATION, HEATING, AIR CONDITIONING (PACKAGED, OPTION FOR SPLIT SYSTEM)

428 - FURNITURE: KITCHENETTE (SINK, CUPBOARD)
429 - FURNITURE: SHELF (MOTORIZED SHELF, HANGING DRY RACK AND DISH STORAGE)
430 - FURNITURE: SHOWER (3 ENTRANCES, OPTION TO USE AS AIRLOCK WITH CHEMICAL SHOWER)
431 - FURNITURE: TOILET (WALL MOUNT)
432 - FURNITURE: SINK (SHELVES, SINK, GRAB BAR)
433 - FURNITURE: STORAGE (ADJUSTABLE RACKS, SALES COUNTER)
434 - FURNITURE: ENTRANCES (SLIDING DOUBLE DOOR, SINGLE DOOR, HOLLOW METAL DOOR FRAME,
1"X2" TUBE STEEL SURROUND AS TRIM FOR CUTOUT IN SHIPPING CONTAINER)
435
436 ---
437 8.TITANIC:
438 ---
439
440 MARKET: MID-RISE LIVE/WORK OF 4 STORIES, FROM 10'+20'+40'+53' CONTAINERS. STRUCTURE
IS ENTIRELY MADE OF SHIPPING CONTAINERS WITH CIRCULATION PROVIDED BY FLOOR PANELS
THAT FOLD UP FOR TRANSPORT AND DROP DOWN TO BE WELDED IN PLACE AT THE FINAL
LOCATION. EXACT SAME FEATURES AS PIONEER AND BUILT AS A MID-RISE. HIGH-RISE OPTION
NOT AVAILABLE (IS NOT LIKELY TO BE COMPETITIVE WITH OTHER BUILDING METHODS WHEN DONE
AT HIGH-RISE ECONOMIES OF SCALE AND WITH ADDITIONAL STRUCTURAL CONSIDERATIONS /
ARCHITECTURAL PREFERENCES.)
441 STATUS: PENDING COMPLETION OF OMNIFURNITURE AND PIONEER UNIT. THE PIONEER DESIGN IS
INFORMED BY THE TITANIC LAYOUT TO ENSURE PIONEER CAN EXPAND INTO TITANIC WITHOUT
CHANGES.
442
443 - CONVEYANCE: ELEVATOR HOIST
444 - VERTICAL: FIRE ESCAPE AND MAINTENANCE LADDER
445 - CIRCULATION: FLOOR PANELS (FOLD DOWN)
446 - CIRCULATION: FLOOR PANELS (DROP IN)
447 - CIRCULATION: RAILING PANELS
448 - CORE & SHELL: 53' CONTAINER STAIR UNIT
449 - CORE & SHELL: 40' CONTAINER FABRICATION OR MEETING ROOM UNIT
450 - MEPF: CONTAINER END UNIT (FANS, INTAKE & OUTPUT)
451 - MEPF: LOW VOLTAGE DISTRIBUTION
452 - MEPF: ELECTRICAL DISTRIBUTION
453 - MEPF: HYDRONIC DISTRIBUTION
454 - MEPF: FRESH WATER DISTRIBUTION
455 - MEPF: FIRE WATER DISTRIBUTION
456 - MEPF: WASTE DISTRIBUTION
457 - FLAG: FLAG POLE
458 - PERIMETER: FENCE PANELS (CONCRETE)
459 - PERIMETER: FENCE PANELS (STEEL)
460 - PERIMETER: FENCE PEDESTRIAN GATE (STEEL)
461 - PERIMETER: FENCE VEHICULAR GATE (STEEL)
462 - FOUNDATION: SPREAD FOOTINGS (CONCRETE WITH REVIEW OF SITE + EXISTING SONOTUBES)
463 - FOUNDATION: TROTH COVERS (SHARED UTILITY TRENCH)
464 - FOUNDATION: CISTERN (SITE SPECIFIC)
465 - LANDSCAPING: BUFFALO GRASS, TREES, VINES
466
467 ---
468 9. AVENGE
469 ---
470
471 MARKET: TRANSPORTATION (HUMAN-SIZE, PERSONAL, AND B2C OR B2B AUTOMATION - DOOR TO
DOOR AIR/LAND/SEA, DIRECT INTERFACE WITH SCELLAR GARAGE/VENDING MACHINE)
472 STATUS: CURRENTLY DESIGNED AS A BOAT HULL WITH OUTRIGGERS TIED TO CANRAD UNITS
CONNECTED AS CYLINDERS. BOAT HULL SWAPPABLE TO MORE COMMON FUSELAGE (EXAMPLES
AVAILABLE FROM COMPETITIONS RELATED TO SOLAR VEHICLES, ONE PERSON SUBMARINES, A 55
GALLON DRUM, A PALLET, OR OTHER STORAGE MEDIUM.) SAME 2.5" DIAMETER MOTOR AS CANRAD
(MORE MOTORS ALONG A CAN CYLINDER FOR MORE LIFT/THRUST)

473
474 - CONTROLS: DIGITAL CONTROLS (GAME CONTROLLER)
475 - CONTROLS: MANUAL STOP (HANDBREAK)
476 - CONTROLS: MANUAL LAND (EMERGENCY STOP BUTTON - STILL REQUIRES COMPUTER MOTOR CONTROL, NEEDS TO BE ON A REDUNDANT PORTION OF THE AUTOPILOT MODULE *MORE EXPENSIVE COMPUTER)
477 - CONTROLS: CAN/CUP HOLDER/LOCK (WIRED CONNECTION TO FUSELAGE + VEHICLE LIGHTS + VEHICLE CAMERA + VEHICLE COMPUTER)
478 - MOTOR CONNECTION: DOUBLE AXIS ARM (SAME AS CANRAD ATTACHMENT - 1" DIAMETER STRUT)
479 - MOTOR CONNECTION: TRI POINT AXIAL FUEL TRANSFER (WITHIN 1" DIAMETER STRUT, SAME AS CANRAD)
480 - POLES: 1" DIAMETER POLES THAT ATTACH A FUSELAGE TO THE CANRAD PUCKS
481 - POLE MOUNT: ATTACHES 1" POLES FROM CANRAD PUCKS OR OTHERWISE TO A STANDARD BOAT HULL / FUSELAGE IN ANY ORIENTATION (ALSO USEFUL AS: FISHING POLE HOLDER, SHADE AWNING SUPPORT, FLOATING DOCK, BOAT RAFT-UP, OR COMBINING MULTIPLE FUSELAGES)
482 - POLE MOUNT: FUSELAGE/DECK, ATTACHES 1" POLES TO A POWER SANDWICH PLATFORM (ANY HUMAN-SIZED VEHICLE STARTING WITH BOAT: OUTRIGGERS, CATAMARAN, OR TRIMARAN)
483 - HYDRAULICS: PUMP, RESERVOIR, AND LINE ATTACHMENT (CONTROLS A HYDRAULIC PISTON FOR AUTOMATING THE POLES - SWATH BOAT ORIENTATION)
484 - RUDDER ASSEMBLY: DROP DOWN RUDDER WITH HAND CONTROLS AND POST ABOVE FOR SEAT OR PANEL ATTACHMENT
485 - PROPULSION: MOTOR (PARALLEL ORIENTATION)
486 - PROPULSION: MOTOR (VERTICAL ORIENTATION)
487 - PROPULSION: SAIL (2-AXIS PIVOTING TO ALLOW FOR AUTOMATED CONTROL OF POINTS OF SAIL, DEPOWERING THE SAIL, AND TRANSITION FROM VERTICAL TO HORIZONTAL ORIENTATION FOR USE AS PLANE WING OR SUBMARINE AILERON *HIGH STRUCTURAL STRESS POINT AT CONNECTION TO FUSELAGE.) AUTOMATED SAILING (RAISE/LOWER/TRIM)
488 - PROPULSION: PEDAL (HOBIE PEDAL FINS)
489 - PROPULSION: PADDLE (SIMPLE BOLT-ON PADDLE HOLDER)
490 - PROPULSION: PLATE FOR ATTACHING AN OUTBOARD MOTOR
491 - MAST/WING/SAIL: MAST
492 - MAST/WING/SAIL: INFLATABLE ETFE SAIL (MAINTAINS RIGIDITY, AND LOW WEIGHT WITH OPTION TO FILL WITH HELIUM FOR FURTHER WEIGHT REDUCTION)
493 - MAST/WING/SAIL: WINGS (INFLATABLE SAIL TRANSITIONS INTO WINGS WHEN ORIENTED PERPENDICULAR TO CANS/CYLINDERS.
494 - BALLAST BAGS: ETFE ARM FLOATIES (WATER FILL, AIR BLOW)
495 - BALLAST BAGS: WATER FILL, AIR BLOW
496 - BALLAST BAGS: SHALLOW DEPTH SUBMERSION IN ROUGH WATER, OR TO OPERATE AT SEAFLOOR.
497 - BALLAST BAGS: FILL WITH AIR TO RAISE FROM SEABED
498 - BALLAST BAGS (INTERIOR): SECONDARY AIR POCKET IN HULL FOR FLOTATION, PLUS BULKHEAD DEPENDING ON EXACT HULL/FUSELAGE.)
499
500 ---
501 !. MOTOR:
502 ---
503
504 MARKET: ALL, LIMITED TO 2.5" DIAMETER MAX MOTOR HOUSING SIZE. DUAL-FUEL- COMBUSTION OR ELECTRIC.
505 STATUS: SKETCHED, MANUFACTURING METHODS CONCEPTUALIZED, EXISTENCE OF A VARIETY OF MOTOR CONTROLLER SOFTWARE IDENTIFIED (FOR STATOR ON/OFF AND RPM FEEDBACK/CONTROL.)
506
507 - DISTRIBUTED MOTORS FOR VEHICLES AND STANDARD MOTOR SIZE/MAINTENANCE FOR BUILDINGS/ APPLIANCES (MANY MOTORS)
508 - PLANNED WITH 12 STATORS AND ROTORS(
509 - RELUCTANCE MOTOR
510 - IN-RUNNER (ROTORS ARE INSIDE THE STATORS)
511 - 2.5" DIAMETER
512 - 4 CYLINDERS IN A "RUSSIAN DOLL" CONFIGURATION.
513 - OUTMOST CYLINDER: HOUSING, CONNECTION POINT FOR STRUCTURE AND FUEL LINES (POWER +

513 GASEOUS)
514 - 2ND OUTMOST CYLINDER: POWER ROUTING INCLUDING MAIN STATORS AND FUEL ROUTING
515 - INNER CYLINDER: COMBUSTION DIRECTIONAL FLOW ORIENTATION PLUS SPARK (ALSO HOLDS THE STATORS IN POSITION)
516 - FINAL INNER CYLINDER IS A REMOVABLE PROP/SCREW/PROPELLER/HYDRAULICWHEEL/TIRE: MADE WITH A CLAMSHELL TO CAPTURE COMBUSTION/EXHAUST FROM THE INNER CYLINDER, DIRECTING IT THROUGH THE FAN BLADE AND OUT THE TIP OF THE BLADE SO EXHAUST IS IN THE SAME DIRECTION AS PROPULSION FROM THE PROPELLER.
517 - METHOD OF CONSTRUCTION: BLAM LASER ON METAL OR COMPOSITE TUBES; WEAVING WITH GRAPHENE, FIBERGLASS, GLASS; OR GROWING WITH CRYSTAL/DIAMOND; CORAL GROWTH MAY ALSO BE POSSIBLE.
518
519 ***
520 OTHER
521 ***
522
523 ---
524 NEEDS ADDRESSED:
525 ---
526
527 - LOWER COST TO LIVE, HIGHER QUALITY OF LIFE, TIME SAVED VIA AUTOMATION, ABILITY TO PURSUE FAITH.
528
529 - AS OPPOSED TO JUST: LOWER COST = LOWER QUALITY OF LIFE. MODERN TECHNOLOGY MUST FACILITY A HIGHER QUALITY OF LIFE AT A LOWER COST, MUCH OF THE TIME - IT DOES NOT.
530
531 - THE TRICKS: MULTIPLE USE CASES, METAL/ALLOY STRUCTURES/CASES, MULTIPLE FUEL SOURCES (SUPPLIES + USE BY MOTOR), SMALLER SIZE, AUTOMATION OF SIMPLE TASKS, REMOVAL OF HIGH-COST GOVERNMENT SERVICES & CORPORATE WELFARE IN PREFERENCE FOR INDEPENDENCE/ INDIVIDUAL OWNERSHIP, SHORTER DISTANCE AND APPROPRIATELY SIZED TRANSPORTATION (NO EMPTY SEATS.)
532
533 - AIR/LAND/SEA/TUNNELING OPERATION (NO NEED TO MAKE THESE SEPARATE OR COMPLEX), SMALLER TOOLS, MORE ADVANCED TOOLS, TRULY MODULAR TOOLS, INTEGRATION INTO EXISTING STRUCTURES (USE WHAT WE HAVE WHEN ITS REASONABLE TO DO SO), RELATIVELY LIGHT-WEIGHT (ABLE TO CARRY & SAVE FUEL), SMALLER SIZES: APPLIANCES / VEHICLES / HOMES, GROUP COLLABORATION ON SOFTWARE, TRULY OPEN SOURCE LOW COST / EFFICIENT / UBIQUITOUS. SMALL ENOUGH SCALE FOR ANY INDIVIDUAL TO FABRICATE FOR THEMSELVES.
534
535 ---
536 PROCESS FOR CANRAD AUTOMATION
537 ---
538
539 SCELLAR: PRIMARY AND SECONDARY CONTROL AT DOG DOOR - RFID TAG. DOG DOOR: VENDING MACHINE, COOK & FRIDGE, ROBOTIC ARM CAN GRAB INDIVIDUAL CANS TO COOK/PREP/WORK WITH (LATER ON, HUMAN ARM TO START,) NEED - ANY CAN CAN BE REMOVED EASILY BY HAND FROM SIDE: GRAVITY FEED PLUS ACCESS FROM SIDE.
540
541 FLIGHT PATH PROCESS:
542
543 1. MISSION PLANNER STANDARD MAP
544 2. DRONES GIVEN GRID TO FLY
545 3. DRONES RETURN, IMAGERY UPLOADED TO SERVER
546 4. SERVER PROCESSES ORTHOTIFF AND POINTCLOUDS
547
548 AT THE SAME TIME AS POINTCLOUD PROCESSING:
549
550 A. DRONE SWAPS BATTERY
551 B. DRONE BEGINS FLYING "POINTS OF INTEREST" - IDENTIFIED MANUALLY OR BY COMPUTER

552 C. COKSCREW FLIGHT PLAN AROUND POINTS OF INTEREST
553 E. POINTS OF INTEREST PROCESSED AGAIN
554
555 WHY? - LOWER BANDWIDTH BETWEEN DRONE AND SERVER, BATTERY ONLY LASTS AN HOUR AT THE
ABSOLUTE MOST - MORE LIKE 20 MINUTES. A 4G/5G CONNECTION ON THE DRONE IS USELESS
UNLESS OPERATED VERY VERY FAR AWAY. NO USE CASE FOR NEAR HOME / BUSINESS OPERATION.
COMBUSTIBLE FUEL SOURCE IS USED.
556
557 1. MISSION UPDATED BASED ON PROCESSING OF POINTS OF INTEREST AND CONDITION OF AREA
558 2. TASKS GIVEN TO INDIVIDUAL DRONES.
559 3. DIG, SQUIRT/WATER, DUMP/FERTILIZE, DOCUMENT/PHOTO, PICK, MOVE, ETC. SHOULD BE A
LIST OF THESE SOMEWHERE.
560 4. UPLOAD MISSION, TAKE MANUAL CONTROL IF NEEDED.
561
562 ***
563 POTENTIAL REVENUE
564 ***
565
566 ---
567 INDIVIDUAL PRODUCT REVENUE (POSSIBLE SALES PRICE, PRICING IS NOT FINALIZED DUE TO:
LAND, MATERIAL, AND MANUFACTURING AVAILABILITY / PRICING.)
568 ---
569
570 - AVERAGE: ~\$4,000 KIT
571 - POWER SANDWICH: ~\$100 EA.
572 - CANRAD: \$500 EA (6 PACK OF 120Z CANS)
573 - PROTE: \$300 KIT (6 PACK OF 120Z CANS)
574 - PIONEER: ~\$100/SF
575 - OMNIFURNITURE: ~\$100/SF
576 - TITANIC: ~\$12.50/SF
577 - LAND: WELL UNDER \$100/SF
578
579 ---
580 TITANIC 4 STORY BUILDING POTENTIAL REVENUE:
581 ---
582
583 \$200/MO MEMBERSHIP:
584 - 36 MEMBERS MAX
585 - SIX FOUR HOUR ACCESS PERIODS PER DAY
586 - FIRST FLOOR ACCESS IN 40' CONTAINER
587 - SHOWER, TOILET, HOT H2O (TEA/SOUP), COLD TANK, POWER, LIGHT, SM FREEZER SPACE,
MICROWAVE, STEAM, INTERNET, LOCKER, AC, ROWER, BIKE STAND/STORE, DESK
588
589 \$20/MO EACH:
590 - DEDICATED SHELF FOR PRODUCT SALES WITH ATTENDANT
591 - FOUNDRY & CRUCIBLES
592 - METAL SHOP
593 - WOOD SHOP
594 - CONCRETE/FIBROUS SHOP
595 - STORAGE AREA (PROJECT SPACE)
596
597 OWN (130SF+30SF+30SF):
598 - \$100/SF APPROX \$16K LAND PURCHASE (3 PARKING SPACES)
599 - \$100/SF APPROX \$32K OMNIFURNITURE TENANT IMPROVEMENT (INTERIORS ONLY)
600 - \$100/SF APPROX \$48K PIONEER UNIT (PLUMBING, ELECTRICAL, DOORS+WINDOWS, HVAC)
601
602 ALTERNATE (BUILD AND SELL):
603 - \$400/SF SALE OF 640SF PER FLOOR
604 - NO MEMBERSHIPS

605 - \$256K PER FLOOR
606 - 1.256 MILLION IN REVENUE MINUS TAXES, LAND, CONSTRUCTION, AND SALES COSTS FOR PROFIT.
607
608 ADDITIONAL REVENUE:
609 - MORTGAGES/FINANCING
610 - PARTIAL BUSINESS OWNERSHIP
611
612 ---
613 STRATEGIC ADVANTAGES
614 ---
615
616 - PROXIMITY TO OTHER BUSINESSES
617 - ANYONE CAN MOVE THEIR HOME AND FABRICATION FACILITY OFFSHORE OR OUT OF CALIFORNIA, REGARDLESS OF SIZE.
618 - SELL GANTRY SYSTEM ALONE AS A FABRICATION BOX - PROBABLY COMMON ALREADY.
619
620 ---
621 DISTRIBUTION OF POSTER AND USE CASES
622 ---
623
624 INTENT: IDENTIFY INDIVIDUALS TO TAKE OWNERSHIP OF THE DESIGN FOR INDIVIDUAL PARTS UNDER A CREATIVE COMMONS LICENSE WHERE EACH INDIVIDUAL RETAINS THE ABILITY *AND THE REQUIREMENT TO COMMERCIALY DESIGN, DEVELOP, AND SELL THE COMPONENT THEY TAKE OWNERSHIP OF; WITH THE EXPECTATION THAT THE COMPONENTS IS DESIGNED TO MEET THE REQUIREMENTS OF THE "CANRAD CORE" FOR MAINTAINING INTEROPERABILITY. THIS IS ESSENTIALLY A DECENTRALIZED METHOD FOR THE DESIGN AND FABRICATION OF TRULY MODULAR AND ROBOTICIZED POWER TOOLS THAT ALSO FACILITATE THE SAME FOR VEHICLES. SHARED FAITH IN PROTESTANT LUTHERANISM IS A REQUIREMENT FOR PARTICIPATION, ALTHOUGH THIS IS NOT A CONTRACTUAL REQUIREMENT IN ANY WAY.
625
626 - ENSURE COMPLETE LIST OF PRODUCTS AND ASSOCIATED USE CASES, THEN IDENTIFY AN EXISTING DESIGN/DESIGNER TO CONTACT OR FIND SOMEONE WHO WOULD LIKE TO TAKE OWNERSHIP OF THAT PART OF THE DESIGN (THAT PRODUCT.) THIS IS WHY THE DOCUMENTATION IS PUBLISHED TO INTERNET ARCHIVE AT WWW.ARCHIVE.ORG
627
628 - TALK TO DAD
629 - SEND TO CHURCH
630 - SEND TO LINARO AND 96 BOARDS TO REQUEST COMMENT.
631 - SEND BCC, LIST EVERYONE IT IS SENT TO WITHIN THE BODY OF THE EMAIL
632 - SEND TO ALL MATERIAL PROVIDERS
633 - SEND TO ALL ORGANIZATIONS
634 - POST AT COFFEE SHOP
635 - POST AT 24
636 - POST AT SDSU
637 - POST AT UCSD
638 - POST AT ARCHIVE.ORG
639 - POST ON LINKEDIN
640 - POST AT CUYAMACA (ADD LOGO)
641 - POST AT GROSSMONT (ADD LOGO)
642 - PLACE IN COFFEE SPOT TOILET.
643 - PLACE ON TOP OF 24 LOCKERS.
644 - PLACE IN PARK TOILET.
645 - KEEP IN CAR/ON PERSON.
646 - SCHOOLS
647 - VOICE OF SAN DIEGO
648 - ETC.
649